	Application No.	Applicant(s)
Notice of Allowability		
	10/840,049 Examiner	HWU ET AL. Art Unit
	David Nhu	2818
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>5/5/04</u> .		•
2. The allowed claim(s) is/are <u>1-20</u> .		
3. The drawings filed on <u>05 May 2004</u> are accepted by the Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	been received. been received in Application No cuments have been received in this of this communication to file a reply IENT of this application. itted. Note the attached EXAMINER es reason(s) why the oath or declara	national stage application from the complying with the requirements as AMENDMENT or NOTICE OF ation is deficient.
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.	.84(c)) should be written on the drawi	ngs in the front (not the back) of
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the		
attached Examiner's comment regarding REQUIREMENT I		
 Attachment(s) 1: ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview Summary Paper No./Mail Da 7. ☐ Examiner's Amend 8. ☑ Examiner's Statem 9. ☐ Other	ite

Application/Control Number: 10/840,049

Art Unit: 2818

REASONS FOR ALLOWANCE

Page 2

1. Claims 1-20 are allowed.

2. The following is an examiner's statement of reasons for allowance: None of the references of record teaches or suggests as cited in claims 1, 12: exposing the process surfaces to an alkaline solution for a period of time sufficient to chemically modify the newly formed process surfaces prior to substantial exposure of the process surfaces to a contaminating or oxidizing atmosphere; placing the semiconductor wafer in a semiconductor wafer holding environment in queue for subsequent semiconductor manufacturing processes (as cited in claim 1); subjecting the exposed process surfaces substantially immediately following the semiconductor manufacturing process to an ammonia free alkaline solution for a period of time sufficient to at least partially hydroxylate the exposed process surfaces (as cited in claim 12)

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

CONCLUSION

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Jolley (6,217,667 B1): Method for Cleaning Copper Surfaces.
- 5. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu, (571)272-1792. The examiner can normally be reached on Monday-Friday from 7:30 AM to 5:00 PM.

The examiner's supervisor, David Nelms can be reached on (571)272-1787.

Application/Control Number: 10/840,049

Art Unit: 2818

Page 3

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956

David Nhu

my.

May 11, 2005

DAVID NHU PRIMARY EY